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PPLICATION NO.	. F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/659,464	0/659,464 09/09/2003		Kung-Li Deng	134239	4724	
6147	7590	06/15/2005		EXAM	EXAMINER	
		RIC COMPANY	LEPISTO,	LEPISTO, RYAN A		
GLOBAL RESEARCH PATENT DOCKET RM. BLDG. K1-4A59				ART UNIT	ART UNIT PAPER NUMBER	
NISKAYUNA, NY 12309				2883	2883	

DATE MAILED: 06/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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-	Application No.	Applicant(s)	Ψ				
Office Action Summary	10/659,464	DENG ET AL.					
Office Action Summary	Examiner	Art Unit					
The MAILING DATE - Asking commission on	Ryan Lepisto	2883	•				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence add	ress				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) d rill apply and will expire SIX (6) MONTHS fro cause the application to become ABANDON	timely filed lays will be considered timely. om the mailing date of this cor NED (35 U.S.C. § 133).	nmunication.				
Status							
1) Responsive to communication(s) filed on <u>27 Mar</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, p		ments is				
Disposition of Claims	x parte quayre, 1000 C.D. 11,	100 0.0. 210.					
4) Claim(s) 1-60 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-60 are subject to restriction and/or example.	vn from consideration.						
9)☐ The specification is objected to by the Examine	r.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex		-	• •				
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applica ity documents have been recei ı (PCT Rule 17.2(a)).	ation No ved in this National S	Stage				
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:		-152)				

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-23 and 35-38, drawn to the method of forming a waveguide with fixing optical elements, classified in class 264, subclass 1.25.
- II. Claims 24-34, drawn to the method of forming a waveguide by providing a blob over the optical surface of the optical elements, classified in class 264, subclass 1.25.
- III. Claims 39-46, drawn to a method of forming an optical path, classified in class 356, subclass 73.1.
- IV. Claims 47-52, drawn to a waveguide comprising a blob over optical surfaces of optical elements, classified in class 385, subclass 50.
- V. Claims 53-60, drawn to a waveguide comprising optical elements fixed relative to each other, classified in class 385, subclass 33.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and V and II and IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the waveguide can be made of silicon

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glass or the mirror could be integral to a substrate or mount, among many other different possibilities.

Inventions III and IV and V are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the process for using the product (group III) can be practiced with optical fiber segments and/or fiber segments in connectorized ferrule structures that can be used to couple the waveguides.

Inventions I and II and IV and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions I and II and IV and V are not capable of use together since they are two different structures used to couple that light and they of different modes of operation since a blob of copolymer will reflect and transmit light differently that over free space or a mirror.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for the each group is not required for the other groups, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan Lepisto whose telephone number is (571) 272-1946. The examiner can normally be reached on M-F 7:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ryan Lepisto

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Date: 5/31/05

Frank Font

Supervisory Patent Examiner

k & Fort

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